



## Dr. Mohan C D

## CURRICULUM VITAE

### Personal Information

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### Academic Profile

Degree	Year	University	Subject	Division
B.Sc.	2008	University of Mysore	Biochemistry, Zoology, Food Science & Nutrition	First Class (72.3%)
M.Sc.	2010	University of Mysore	Biochemistry	Distinction (74.4%)
Ph.D.	2015	University of Mysore	Biochemistry	-

### Academic Achievements

- **National Eligibility Test (NET)** in Life Sciences conducted by Joint CSIR-UGC with the All India Ranking of 54.
- **Karnataka State Eligibility Test (KSET)** in Life Sciences conducted by University of Mysore.
- **Graduate Aptitude Test in Engineering (GATE)** in Life Sciences conducted by Indian Institute of Technology (IIT), Kharagpur.

### Awards and Recognitions

- **NASI-Young Scientist Platinum Jubilee Award**, conferred by The National Academy of Sciences, India (2019).
- **Prof. Umakant Sinha Memorial Award**, conferred by The Indian Science Congress Association, Kolkata (2019).
- **INSPIRE fellow** by Department of Science & Technology, Ministry of Science & Technology, Government of India, India.
- **Roll of Honour** by JSS College, Ooty road, Mysuru for securing highest marks in M.Sc.

- **Best Oral Presentation award** in the two days' National conference on "Driving stem cell research towards therapy – a vision of the future" organized by Pooja Bhagavat memorial Mahajana PG centre, Mysuru.
- **Best Poster Presentation award** at the International Conference on Drug Design organized by Schrodinger at Jawaharlal Nehru University, New Delhi.

### Research Projects

Title of the project	Position	Tenure	Funding Agency	Amount Sanctioned
Development of Drug-seeds that target TFF3 in mammary, gastric, and hepatocellular carcinoma	Co-PI	2019-2022	Department of Biotechnology, Govt. of India	Rs.95,80,240/-

### Professional Experience

Position	Institution	Duration
Assistant Professor	Department of Studies in Molecular Biology, University of Mysore, Manasagangotri	2016 to till date
Research Associate	University of Mysore	2015
Guest Faculty	Department of Molecular Biology, Yuvaraja's College, Mysore	2010 to 2011

### Visits Abroad

- Visiting Researcher under the JSPS Core-to-Core project, Asia-Africa Science Platforms to Faculty of Advanced Life Science, Hokkaido University, Japan.
- Visiting Researcher under the DST-INSPIRE fellowship to Yong Loo Lin School of Medicine, Department of Pharmacology, National University of Singapore, Singapore.

### Academic Accomplishments

- Visiting Scientist: Adichunchanagiri Institute for Molecular Medicine, BG Nagara, Nagamangala Taluk, Mandya District.

### Research Credentials (Google Scholar)

- **Citations:** Over 1000
- **H-Index:** 20
- **I10 Index:** 34

### Editorial in Journals

- **Associate Editor:** BMC Complementary and Alternative Medicine
- **Academic Editor:** PLoS One

### Journal Reviewer

- Scientific Reports; PLoS One; Frontiers in Oncology; Frontiers in Pharmacology; RSC Molecular Omics; Oncology Reports; Molecular Medicine Reports; Experimental and Therapeutic Medicine; Bioorganic Chemistry; BMC Complementary and Alternative

### Patents (05)

1. Rangappa KS, Basappa, Mohan CD, Shobith R, Bharathkumar H, Sethi G, Bender A, Lobie PE, Hui KM, Kumar AP, Pandey VK, Fuchs J, Shanmugam MK, Bulusu K, Dai X, Li F, Deivasigamani A; **“Compounds as modulator of JAK-STAT pathway, methods and applications thereof”**.
  - a. US Patent - Pub. No. US 2016/0214968 A1 dated 28-07-2016.
  - b. Indian Patent, 324/CHE/2015 dated 22-01-2015.
2. Rangappa KS, Basappa, Mohan CD, Shobith R, Srinivasa V, Pandey V, Lobie PE; **“Compounds as inhibitors of BAD phosphorylation, methods, and applications thereof”**.
  - a. US Patent - Pub. No. US 2020/0131139 A1 dated 30-04-2020.
  - b. UK Patent-1607230.8 dated 26-04-2016.
  - c. Indian Patent, 2328/CHE/2015 dated 07-05-2015.
3. Rangappa KS, Basappa, Mohan CD, Shobith R, Keerthy HK, Sethi G, Bender A, Girish KS, Fuchs J, Sundaram MS, Li F, Siveen KS; **“Compounds as modulators of tumor necrosis factor, methods and applications thereof”**, Indian Patent, 4345/CHE/2015 A Publication dated 24-02-2017.
4. Rangappa KS, Lobie PE, Basappa, Mohan CD, Shobith R, Pandey VK, Anusha S, Baburajeev CP; **“Adamantyl tethered thiazolyl-Pyrazolines, methods and applications thereof”**, Indian Patent Application No. 201641024910 A, Publication dated 26-01-2018.
5. Lobie PE, Pandey VK, Rangappa KS, Basappa, Keerthy HK, Mohan CD, Shobith R; **“Compounds Useful in Inhibiting Human Trefoil Factor 3”**. International Patent Application No. PCT/SG2018/050277.

### Publications (58)

Total impact factor (IF): 184.4

Average IF: 3.12

1. **Mohan CD\***, Shobith R, Preetham HD, Nayak SC, Gupta VK, Basappa, Sethi G\*, Rangappa KS\*; Targeting STAT3 signaling pathway in cancer by agents derived from Mother Nature; *Seminars in Cancer Biology*, 2020 (\*First & Corresponding author) (Impact factor: 11.09)
2. Lee JH<sup>#</sup>, **Mohan CD<sup>#</sup>**, Deivasigamani A, Shobith R, Basappa, Chinnathambi A, Alahmadi TA, Alharbi SA, Garg M, Lin ZX, Rangappa KS, Sethi G, Hui KM, Ahn KS; Brusatol suppresses STAT3-driven metastasis by downregulating epithelial-mesenchymal transition in hepatocellular carcinoma; *Journal of Advanced Research*, 2020 (#Equal first author). (In press) (Impact factor: 6.992)
3. Lee JH<sup>#</sup>, **Mohan CD<sup>#</sup>**, Shanmugam MK, Shobith R, Sethi G, Siveen KS, Chinnathambi A, Alahmadi TA, Alharbi SA, Basappa, Rangappa KS, Ahn KS; Vitexin abrogates invasion and survival of hepatocellular carcinoma cells through targeting STAT3 signaling pathway; *Biochimie*, 2020, 175, 58-68 (#Equal first author) (Impact factor: 3.413)

4. Malojirao VH, Swamy SG, Shanmugam MK, Sherapura A, Dukanya, Metri PK, Vigneshwaran V, Chinnathambi A, Alharbi SA, Shobith R, **Mohan CD**, Basappa, Prabhakar BT, Rangappa KS; Novel 1,3,4-oxadiazole targets STAT3 signaling to induce antitumor effect in lung cancer; *Biomedicines*, 2020 (Accepted) **(Impact factor: 4.717)**
5. Chaithanya S<sup>#</sup>, **Mohan CD**<sup>#</sup>, Ambeker S<sup>#</sup>, Dukanya, Shobith R, Baburajeev CP, Sukhorukov A, Mishra S, Shanmugam MK, Chinnathambi A, Alahmadi TA, Alharbi SA, Basappa, Rangappa KS; Identification of a Novel 1,2 Oxazine That Can Induce Apoptosis by Targeting NF- $\kappa$ B in Hepatocellular Carcinoma Cells; *Biotechnology Reports*, 2020, 25, e00438 (<sup>#</sup>Equal first author) **(Cite Score: 4.57)**
6. Sumana KY, **Mohan CD**, Merlo AA, Shobith R, Nayak SC, Rai KM, Rangappa KS; Small Molecule Based Five-Membered Heterocycles: A View of Liquid Crystalline Properties Beyond the Biological Applications; *Journal of Molecular Liquids*, 2020, 297, 111686. **(Impact factor: 5.065)**
7. Swetha H, Swaroop TR, Preetham HD, **Mohan CD**, Umashakara M, Basappa, Vlodayvsky I, Sethi G, Rangappa KS; Synthesis, cytotoxic and heparanase inhibition studies of 5-oxo-1-arylpiperidine-3-carboxamides of hydrazides and 4-amino-5-aryl-4H-1,2,4-triazole-3-thiol; *Current Organic Synthesis*, 2020, 17, 243-250. **(Impact factor: 1.983)**
8. Aiyaz M, Divakara ST, Konappa NM, Kalagattur NK, Satyanarayana NR, **Mohan CD**, Shobith R, Nayak SC, Niranjana SR; Genetic and chemotypic diversity of two lineages of *Aspergillus flavus* isolated from maize seeds of different agroclimatic niches of India; *Indian Phytopathology*, 2020, 73, 219-236.
9. Kalagatur NK, Gurunathan S, Kamasani JR, Gunti L, Kadirvelu K, **Mohan CD**, Shobith R, Prasad R, Almeida F, Mudili V, Nayak SC; Inhibitory effect of *C. zeylanicum*, *C. longa*, *O. basilicum*, *Z. officinale*, and *C. martini* essential oils on growth and ochratoxin A content of *A. ochraceus* and *P. verrucosum* in maize grains; *Biotechnology Reports*, 2020, 27, e00490. **(Cite Score: 4.57)**
10. **Mohan CD**<sup>#</sup>, Swetha H<sup>#</sup>, Preetham HD, Shobith R, Barash U, Ilan N, Nayak SC, Gupta VK, Basappa, Vlodayvsky I, Rangappa KS; Targeting Heparanase in Cancer: Inhibition by Synthetic, Chemically Modified and Natural Compounds; *iScience (Cell Press)*, 2019, 15, 360-390 (<sup>#</sup>Equal first author) **(Impact factor: 4.447)**
11. Lee JH<sup>#</sup>, **Mohan CD**<sup>#</sup>, Basappa<sup>#</sup>, Shobith R, Chinnathambi A, Alahmadi TA, Alharbi SA, Kumar AP, Sethi G, Ahn KS, Rangappa KS; The I $\kappa$ B Kinase Inhibitor ACHP Targets STAT3 Signaling Pathway in Human Non-Small Cell Lung Carcinoma Cells; *Biomolecules*, 2019, 9, 875 (<sup>#</sup>Equal first author) **(Impact factor: 4.082)**
12. Lee JH, Shobith R, **Mohan CD**, Basappa, Sethi G, Lin ZX, Rangappa KS, Ahn KS; Brusatol, a Nrf2 Inhibitor Targets STAT3 Signaling Cascade in Head and Neck Squamous Cell Carcinoma; *Biomolecules*, 2019, 9, 550. **(Impact factor: 4.082)**
13. Keerthy HK, Surender M, Basappa, Bharathkumar H, Shobith R, Svensson F, Bender A, **Mohan CD**<sup>\*</sup>, Rangappa KS<sup>\*</sup>, Bhatnagar R<sup>\*</sup>; Triazole-Pyridine Dicarbonitrile Targets Phosphodiesterase 4 to Induce Anticancer Activity in Lung Carcinoma Cells; *Chemistry & Biodiversity*, 2019, 16, e1900234 (<sup>\*</sup>Corresponding author) **(Impact factor: 2.039)**

14. Baburajeev CP<sup>#</sup>, **Mohan CD<sup>#</sup>**, Pandey V, Shobith R, Naveen S, Kalash L, Devaraja S, Bender A, Lobie PE, Rangappa KS; Synthesis of C-C, C-N Coupled Novel Substituted Dibutyl Benzothiazepinone Derivatives and Evaluation of Their Thrombin Inhibitory Activity; *Bioorganic Chemistry*, 2019, 87, 142-154 (<sup>#</sup>Equal first author). **(Impact factor: 4.831)**
15. Lakshmeesha TR, Naveen KK, Venkataramana M, **Mohan CD**, Shobith R, Prasad D, Ashwini S, Hashem A, Alqarawi AA, Malik JA, Abdallah EF, Gupta VK, Siddaiah CN, Niranjana R; Biofabrication of Zinc oxide nanoparticles with *Syzygium aromaticum* flower buds extract and finding its novel application in controlling the growth and mycotoxins of *Fusarium graminearum*; *Frontiers in Microbiology*, 2019, 10, 1244 **(Impact factor: 4.235)**
16. Srinivas C, Devi N, Narasimha Murthy K, **Mohan CD**, Lakshmeesha TR, Singh BP, Naveen KK, Niranjana SR, Hashem A, Srivastava RK, Alqarawi A, Tabassum B, Elsayed AA, Nayak SC; Fusarium oxysporum f. sp. lycopersici causal agent of vascular wilt disease of tomato: Biology to diversity-A review; *Saudi Journal of Biological Sciences*; 2019, 26, 1315-1324. **(Impact factor: 2.802)**
17. Selvakumar G, Raja RB, Mudili V, **Mohan CD**, Kadirvelu K, Kannan Babu JR, Alqarawi AA, Hashem A, Abdallah EF, Siddaiah CN; Single Nucleotide Polymorphisms (SNPs) in Starch Biosynthetic Genes Associated with Increased Resistant Starch Content in Rice Mutant; *Frontiers in Genetics*, 2019, 10:946 **(Impact factor: 3.258)**
18. Pandey V<sup>#</sup>, Wang B<sup>#</sup>, **Mohan CD<sup>#</sup>**, Raquib A, Shobith R, Srinivasa V, Fuchs J, Girish KS, Zhu T, Bender A, Ma L, Yin Z, Basappa, Rangappa KS, Lobie PE; Discovery of a small-molecule inhibitor of specific serine-residue BAD phosphorylation; *Proceedings of the National Academy of Sciences, USA*, 2018, 115, E10505-E10514 (<sup>#</sup>Equal first author). **(Impact factor: 9.412)**
19. **Mohan CD<sup>#</sup>**, Bharathkumar H<sup>#</sup>, Dukanya, Shobith R, Shanmugam MK, Chinnathambi A, Alharbi SA, Alahmadi TA, Bhattacharjee A, Lobie PE, Deivasigamani A, Hui KM, Sethi G, Basappa, Rangappa KS, Kumar AP; N-Substituted Pyrido-1,4-oxazin-3-ones Induce Apoptosis of Hepatocellular Carcinoma Cells by Targeting NF- $\kappa$ B Signaling 2 Pathway; *Frontiers in Pharmacology*, 2018, 9:1125 (<sup>#</sup>Equal first author). **(Impact factor: 4.225)**
20. **Mohan CD**, Anilkumar NC, Shobith R, Shanmugam MK, Mishra S, Chinnathambi A, Alharbi SA, Bhattacharya A, Sethi G, Kumar AP, Basappa, Rangappa KS; Novel 1, 3, 4-Oxadiazole Induces Anticancer Activity by Targeting NF- $\kappa$ B in Hepatocellular Carcinoma Cells; *Frontiers in Oncology*, 2018, 8, 42. **(Impact factor: 4.848)**
21. Uzma F<sup>#</sup>, **Mohan CD<sup>#</sup>**, Hashem A, Konappa NM, Shobith R, Kamath PV, Singh BP, Mudili V, Gupta VK, Siddaiah CN, Chowdappa S, Alqarawi AA, Abdallah EF; Endophytic Fungi- Alternative Sources of Cytotoxic Compounds: A Review; *Frontiers in Pharmacology*, 2018, 9, 3.09 (<sup>#</sup>Equal first author). **(Impact factor: 4.225)**
22. Gilandoust M<sup>#</sup>, Harsha KB<sup>#</sup>, **Mohan CD<sup>#</sup>**, Raquib AR, Shobith R, Pandey V, Lobie PE, Basappa, Rangappa KS; Synthesis, Characterization and Cytotoxicity Studies of 1, 2, 3-triazoles and 1, 2, 4-triazolo [1, 5-a] pyrimidines in Human Breast Cancer Cells;

- Bioorganic & Medicinal Chemistry Letters*, 2018, 28, 2314-2319 (#Equal first author).  
(Impact factor: 2.572)
23. Lavanya SN, Udayashankar AC, Niranjana Raj S, **Mohan CD**, Gupta VK, Tarasatyavati C, Srivastava R, Nayak SC; Lipopolysaccharide-induced priming enhances NO-mediated activation of defense responses in pearl millet challenged with *Sclerospora graminicola*; **3 Biotech**, 2018, 8, 475. (Impact factor: 1.798)
24. Chaithanya S, Hegde M, Sharath Kumar KS, Ananda H, Srivastava M, Harsha KB, **Mohan CD**, Kavya A, Basappa, Raghavan SC, Rangappa KS; Synthesis and Biological Evaluation of Novel Thiazol-2yl-amine Derivatives as Potential Anticancer Agents; *Letters in Organic Chemistry*, 2018, 15, 270-281. (Impact factor: 0.779)
25. Ambeker S<sup>#</sup>, **Mohan CD**<sup>#</sup>, Arunkumar S, Kumar MK, Shobith R, Surender M, Basappa, Kotresh O, Rangappa KS; Synthesis of Coumarin-Benzotriazole Hybrids and Evaluation of Their Anti-Tubercular Activity; *Letters in Organic Chemistry*, 2018, 15, 23-31 (#Equal first author). (Impact factor: 0.779)
26. Baburajeev CP<sup>#</sup>, **Mohan CD**<sup>#</sup>, Shobith R, Mason DJ, Fuchs JE, Bender A, Barash U, Vlodavsky I, Basappa, Rangappa KS; Identification of Novel Class of Triazolo-Thiadiazoles as Potent Inhibitors of Human Heparanase and their Anticancer Activity; *BMC Cancer*, 2017, 17:235 (#Equal first author) (Impact factor: 3.15)
27. Anusha S<sup>#</sup>, Pandey V<sup>#</sup>, **Mohan CD**<sup>#</sup>, Chia YT, Shobith R, Mathai J, Baburajeev CP, Paricharak S, Mervin LH, Bulusu KC, Fuchs JE, Bender A, Yamada S, Basappa, Lobie PE, Rangappa KS; Novel Adamantanyl Based Thiadiazolyl-Pyrazoles Targeting EGFR in Triple Negative Breast Cancer; *ACS Omega*, 2016, 1, 1412-1424 (#Equal first author). (Impact factor: 2.87)
28. **Mohan CD**<sup>#</sup>, Srinivasa V<sup>#</sup>, Shobith R<sup>#</sup>, Mervin L, Surender M, Paricharak S, Baday S, Li F, Shanmugam MK, Chinnathambi A, Zayed ME, Alharbi SA, Bender A, Sethi G, Basappa, Rangappa KS; Trisubstituted-Imidazoles Induce Apoptosis in Human Breast Cancer Cells by Targeting the Oncogenic PI3K/Akt/mTOR Signaling Pathway; *PLoS One*, 2016, 11, e0153155 (#Equal first author). (Impact factor: 2.74)
29. Anilkumar NC<sup>#</sup>, **Mohan CD**<sup>#</sup>, Shobith R,<sup>#</sup> Ananda H, Sukhorukov AY, Shanmugam MK, Sundaram MS, Nayaka SC, Girish KS, Chinnathambi A, Zayed ME, Alharbi SA, Sethi G, Basappa, Rangappa KS; Novel Synthetic Oxazines target NF- $\kappa$ B in Colon Cancer in Vitro and Inflammatory Bowel Disease in Vivo; *PLoS One*, 2016, 11, e0163209 (#Equal first author). (Impact factor: 2.74)
30. Sulaiman NB<sup>#</sup>, **Mohan CD**<sup>#</sup>, Basappa<sup>#</sup>, Vijay Pandey, Shobith R, Bharathkumar H, Kumar AP, Lobie PE, Rangappa KS; An Azaspirane Derivative Suppresses Growth and Induces Apoptosis of ER-Positive and ER-Negative Breast Cancer Cells through the Modulation of JAK2/STAT3 Signaling Pathway; *International Journal of Oncology*, 2016, 49, 1221-1229 (#Equal first author). (Impact factor: 3.899)

31. Subramanian G, Babu Rajeev CP, **Mohan CD**, Sinha A, Chu TT, Anusha S, Ximei H, Fuchs JE, Bender A, Rangappa KS, Chandramohanadas R, Basappa; Synthesis and *in vitro* evaluation of hydrazinyl phthalazines against malaria parasite, Plasmodium falciparum; ***Bioorganic & Medicinal Chemistry Letters***, 2016, 26, 3300-3306. **(Impact factor: 2.572)**
32. Baburajeev CP, **Mohan CD**, Govindagouda SP, Shobith R, Pandey V, Anusha S, Fuchs JE, Bender A, Lobie PE, Basappa, Rangappa KS; Nano-cuprous oxide catalyzed one-pot synthesis of carbazole-based STAT3 inhibitor: A facile approach via intramolecular C-N bond formation reactions; ***RSC Advances***, 2016, 6, 36775. **(Impact factor: 3.119)**
33. Nandeesh KN, Swarup HA, Sandhya NC, **Mohan CD**, Pavan Kumar CS, Kumara MN, Mantelingu K, Ananda S, Rangappa KS; Synthesis and Antiproliferative efficiency of novel bis(imidazol-1-yl)vinyl-1,2,4-oxadiazoles; ***New Journal of Chemistry***, 2016, 40, 2823-2828. **(Impact factor: 3.288)**
34. Keerthy HK, Paricharak S, **Mohan CD**, Bharathkumar H, Nagabhushana GP, Dinesh KR, Chandrappa GT, Bender A, Basappa, Rangappa KS; Nano-MoO<sub>3</sub> mediated synthesis of bioactive thiazolidin-4-ones acting as anti-bacterial agents and their mode-of-action analysis using *in silico* target prediction, docking and similarity searching; ***New Journal of Chemistry***, 2016, 40, 2189-2199. **(Impact factor: 3.288)**
35. Anusha S<sup>#</sup>, **Mohan CD**<sup>#</sup>, Ananda H, Baburajeev CP, Shobith R, Mathai J, Fuchs JE, Li F, Shanmugam MK, Bender A, Sethi G, Basappa, Rangappa KS; Adamantyl-tethered-biphenylic compounds induce apoptosis in cancer cells by targeting Bcl homologs; ***Bioorganic & Medicinal Chemistry Letters***, 2016, 26, 1056-1060 (<sup>#</sup>Equal first author). **(Impact factor: 2.572)**
36. Rakesh KS, Jagadish S, Balaji KS, Zameer F, Swaroop TR, **Mohan CD**, Shankar J, Rangappa KS; 3,5-Disubstituted Isoxazole Derivatives: Potential Inhibitors of Inflammation and Cancer; ***Inflammation***, 2016, 39, 269-280. **(Impact factor: 3.212)**
37. Shivaprasad CM, Jagadish S, Swaroop TR, Roopashree R, Rakesh KS, **Mohan CD**, Raghava B, Rangappa KS; Synthesis, antibacterial, antioxidant and anti-inflammatory studies of benzimidazoles; ***European Journal of Biomedical and Pharmaceutical Sciences***, 2016, 3, 190-197.
38. Anusha S, Baburajeev CP, **Mohan CD**, Mathai J, Shobith R, Surender M, Chandra, Paricharak S, Mervin L, Fuchs JE, Mahendra M, Bender A, Basappa, Rangappa KS; A Nano-MgO and ionic liquid-catalyzed 'green' synthesis protocol for the development of adamantyl-imidazolo-thiadiazoles as anti-tuberculosis agents targeting sterol 14 $\alpha$ -demethylase (CYP51); ***PLoS One***, 2015, 10(10): e0139798. **(Impact factor: 2.74)**
39. Baburajeev CP<sup>#</sup>, **Mohan CD**<sup>#</sup>, Ananda H, Shobith R, Fuchs JE, Jagadish S, Siveen KS, Chinnathambi A, Alharbi SA, Zayed ME, Zhang J, Li F, Sethi G, Girish KS, Bender A, Basappa, Rangappa KS; Development of Novel Triazolo-Thiadiazoles from Heterogeneous "Green" Catalysis as Protein Tyrosine Phosphatase 1B Inhibitors; ***Scientific Reports***, 2015, 5, 14195 (<sup>#</sup>Equal first author). **(Impact factor: 3.998)**

40. Ashwini N, Garg M, **Mohan CD**, Fuchs JE, Shobith R, Anusha S, Swaroop TR, Rakesh KS, Kanojia D, Madan V, Bender A, Koeffler HP, Basappa, Rangappa KS; Synthesis of 1,2-Benzisoxazole Tethered 1,2,3-Triazoles That Exhibit Anticancer Activity in Acute Myeloid Leukemia Cell Lines by Inhibiting Histone Deacetylases, and Inducing p21 and Tubulin Acetylation; *Bioorganic & Medicinal Chemistry*, 2015, 23, 6157-6165.  
(Impact factor: 3.073)
41. Bharathkumar H<sup>#</sup>, **Mohan CD**<sup>#</sup>, Shobith R, Kang T, Keerthy HK, Fuchs JE, Kwon NH, Bender A, Kim S, Basappa, Rangappa KS; Screening of Quinoline, 1,3-Benzoxazine, and 1,3-Oxazine-based Small Molecules Against Isolated Methionyl-tRNA Synthetase and A549 and HCT116 Cancer Cells Including an In Silico Binding Mode Analysis; *Organic & Biomolecular Chemistry*, 2015, 13, 9381-9387 (\*Equal first author, Inside Cover Page)  
(Impact factor: 3.412)
42. Anil Kumar CN, Sundaram MS, **Mohan CD**, Shobith R, Bulusu KC, Fuchs JE, Girish KS, Bender A, Basappa, Rangappa KS; A One Pot Synthesis of Novel Bioactive Tri-substituted-Condensed-Imidazopyridines that Targets Snake Venom Phospholipase A<sub>2</sub>; *PLoS One*, 2015, 10(7), e0131896.  
(Impact factor: 2.74)
43. Bharathkumar H, **Mohan CD**, Ananda H, Fuchs JE, Li F, Shobith R, Surender M, Bulusu KC, Girish KS, Sethi G, Bender A, Basappa, Rangappa KS; Microwave-Assisted Synthesis, Characterization and Cytotoxic Studies of Novel Estrogen Receptor  $\alpha$  Ligands towards Human Breast Cancer Cells; *Bioorganic & Medicinal Chemistry Letters*, 2015, 25, 1804-1807.  
(Impact factor: 2.572)
44. Mahabaleshwaraiah N<sup>#</sup>, Dinesh KR<sup>#</sup>, **Mohan CD**<sup>#</sup>, Li F, Dai X, Siveen KS, Paricharak S, Mason DJ, Fuchs JE, Sethi G, Bender A, Rangappa KS, Kotresh O, Basappa; Novel synthetic coumarins that targets NF- $\kappa$ B in Hepatocellular Carcinoma; *Bioorganic & Medicinal Chemistry Letters*, 2015, 25, 893-897 (<sup>#</sup>Equal first author).  
(Impact factor: 2.572)
45. Roopashree R, **Mohan CD**, Swaroop TR, Jagadish S, Raghava B, Balaji KS, Shankar J, Basappa, Rangappa KS; Novel synthetic bisbenzimidazole that targets angiogenesis in Ehrlich ascites carcinoma bearing mice; *Bioorganic & Medicinal Chemistry Letters*, 2015, 25, 2589-2593.  
(Impact factor: 2.572)
46. Srinivas V<sup>#</sup>, **Mohan CD**<sup>#</sup>, Baburajeev CP, Shobith R, Jagadish S, Fuchs JE, Sukhorukov AY, Chandra, Mason DJ, Sharath Kumar KS, Mahendra M, Bender A, Basappa, Rangappa KS; Synthesis and Characterization of Novel Oxazines and Demonstration that they Specifically Target Cyclooxygenase 2; *Bioorganic & Medicinal Chemistry Letters*, 2015, 25, 2931-2936 (<sup>#</sup>Equal first author).  
(Impact factor: 2.572)
47. Rakesh KS, Jagadish S, Swaroop TR, **Mohan CD**, Ashwini N, Harsha KB, Zameer F, Girish KS, Rangappa KS; Anti-Cancer Activity of 2,4-Disubstituted Thiophene Derivatives: Dual Inhibitors of Lipoxygenase and Cyclooxygenase; *Medicinal Chemistry*, 2015, 11, 462-472.  
(Impact factor: 2.577)



48. Sharath Kumar KS, **Mohan CD**, Jagadish S, Rakesh KS, Ananda H, Basappa, Rangappa KS; Synthesis and acetylcholinesterase/butyrylcholinesterase inhibition activity of arecoline-, 4-thiazolidinone- and piperidine-based conjugates; *Asian Journal of Pharmaceutical and Clinical Research*, 2015, 8, 142-148.
49. Shivaprasad CM, Jagadish S, Swaroop TR, Roopashree R, **Mohan CD**, Rakesh KS, Raghava B, Rangappa KS; Synthesis, antibacterial, antioxidant and anti-inflammatory activities of new benzimidazole derivatives; *Asian Journal of Biochemical and Pharmaceutical Research*, 2015, 4, 71-81.
50. **Mohan CD**, Bharathkumar H, Bulusu KC, Pandey V, Shobith R, Fuchs JE, Shanmugam MK, Dai X, Li F, Deivasigamani A, Hui KM, Kumar AP, Lobie PE, Bender A, Basappa, Sethi G, Rangappa KS; Development of a novel azaspirane that targets the Janus kinase-Signal transducer and activator of transcription (STAT) pathway in Hepatocellular Carcinoma in vitro and in vivo; *Journal of Biological Chemistry*, 2014, 289, 34296-34307. **(Impact factor: 4.238)**
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### Book Chapters

Sl. No.	Title of the Chapter	Authors	Book Title	Publishers
1	Endophytic fungi: Promising source of novel bioactive compounds	Uzma F, Mohan CD, Chandra Nayak S, Srinivas C	Advances in Endophytic Fungal Research	Springer ISBN 978-3-030-03589-1

### Invited talk

- Resource person: Refresher course at Academic Staff College, Bangalore University on “living organisms and their world- human perspective” 27<sup>th</sup> January 2020
- Invited talk: In a one-day international symposium on “Recent Trends in Research Across the World” organized by Adichunchanagiri University, BG Nagar, Mandya on December 6<sup>th</sup>, 2019.
- Invited talk: In a seven days national workshop on “Scientific Equipments: Application and Data Analysis in Advanced Research” September 22<sup>nd</sup>, 2019.
- Invited talk: two days’ national seminar on “Innovative Approaches in Biological Science Research” organized by Department of Biochemistry, Kuvempu University, Shankaraghatta, Shimoga on March 23<sup>rd</sup>, 2019.
- Invited talk: School of Sciences, Jain University, JC Road, Bangalore on the occasion of National Science Day on February 28<sup>th</sup>, 2019.
- Invited talk: National Conference on “Future India: Science & Technology” organized by Indian Science Congress Association at Oxford Science College, Bangalore on October 10<sup>th</sup>, 2018.
- Invited talk: Department of Molecular Biology, Yuvaraja’s College, Mysore on September 27<sup>th</sup>, 2018
- Invited talk: International conference on “Multidisciplinary Approach of Science: Nanotechnology - A Boon for Mankind”, Garden City University, Bangalore on September 18<sup>th</sup>, 2018.
- Invited talk: 105<sup>th</sup> Indian Science Congress, Manipur University, Imphal March 18<sup>th</sup>, 2018.

- Invited talk: Faculty of Advanced Life Science, Hokkaido University, Japan on November 13<sup>th</sup>, 2014, under JSPS Core-to-Core Program.

## **Membership**

- Life member of **The Indian Science Congress Association**
- Life member of **Society of Biological Chemists, India**
- Life member of **Indian Association for Cancer Research**
- Life member of **The Biotech Research Society, India**